

Penultimate Solar Cell

AM1 Efficiency

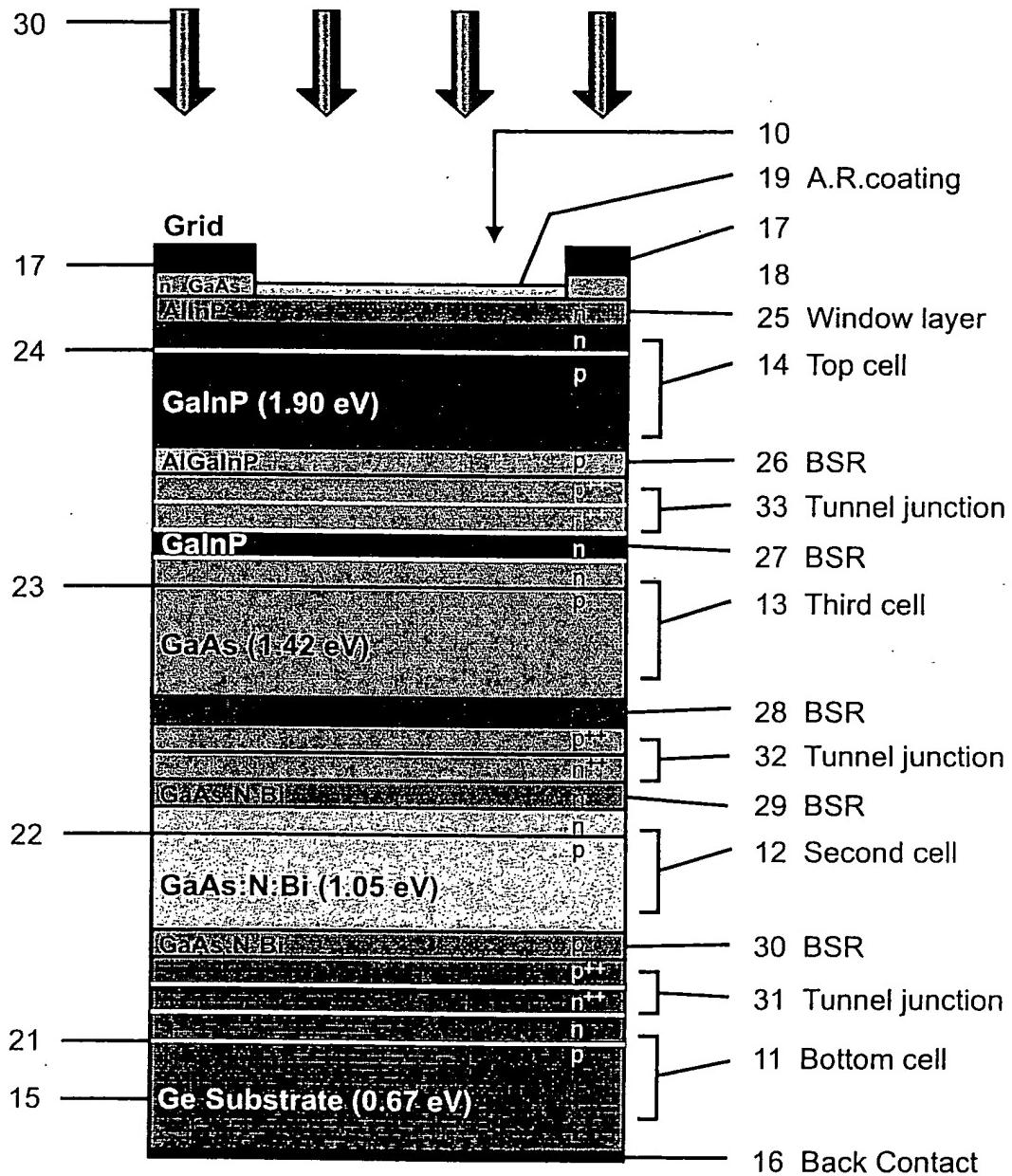


FIG. 1

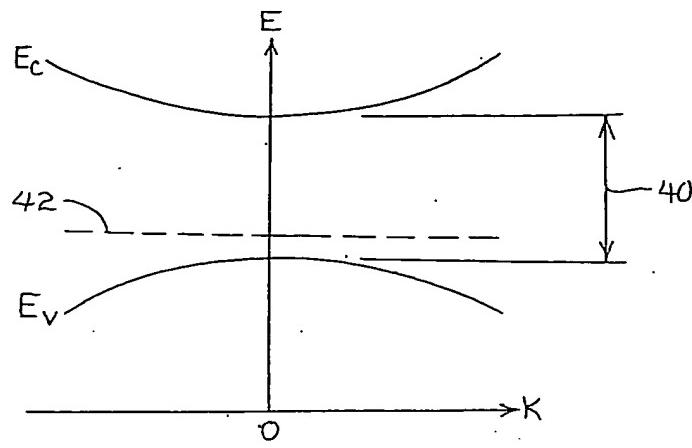


FIG. 2 (Prior Art)

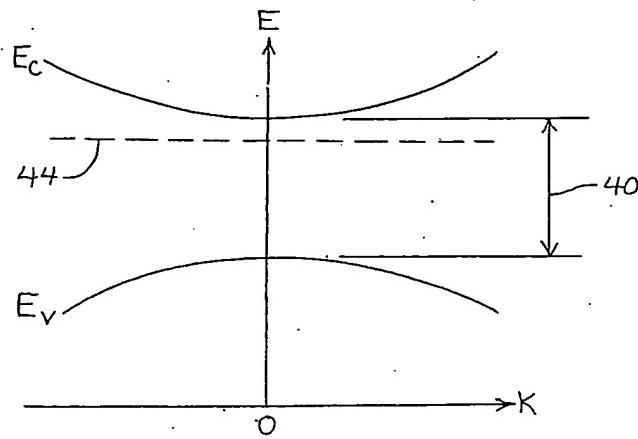


FIG. 3 (Prior Art)

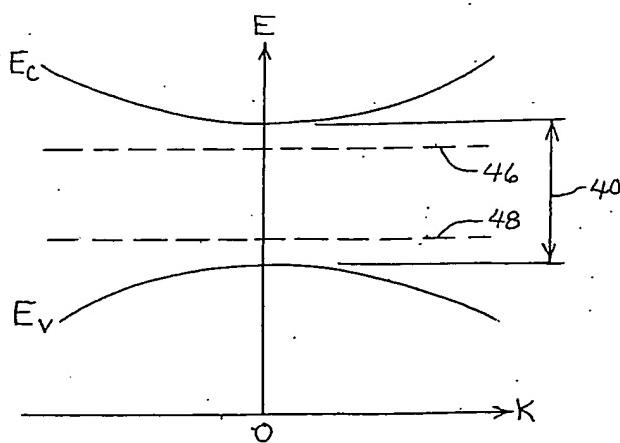


FIG. 4

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Ultimate Solar Cells

AM1 Efficiency
Theoretical: 36%

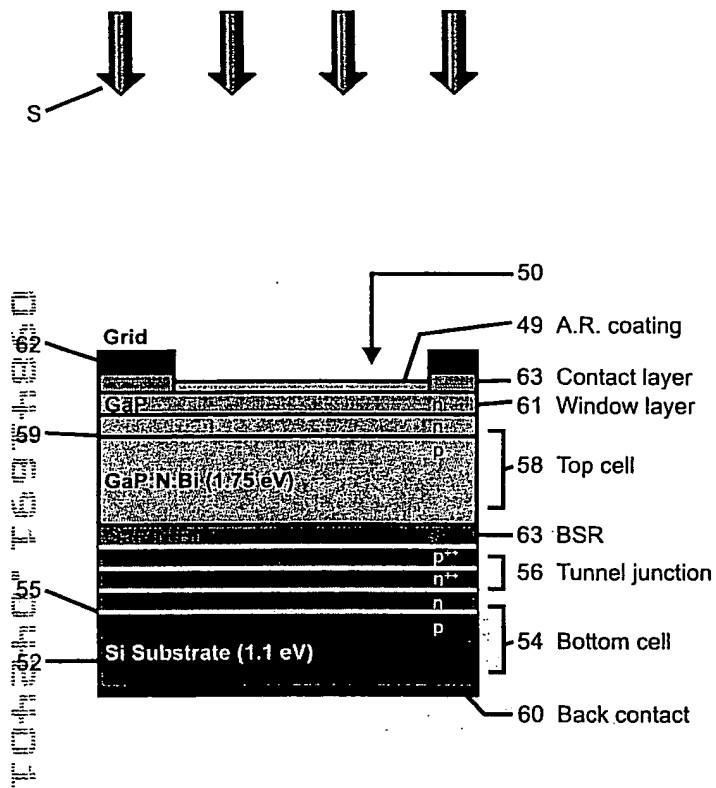


FIG. 5

AM1 Efficiency
Theoretical: 40%

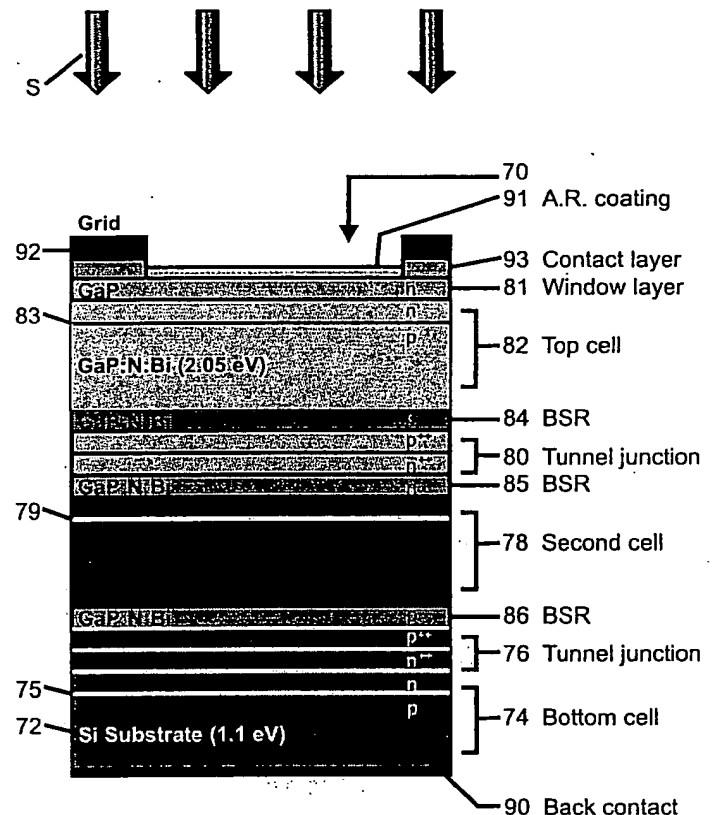
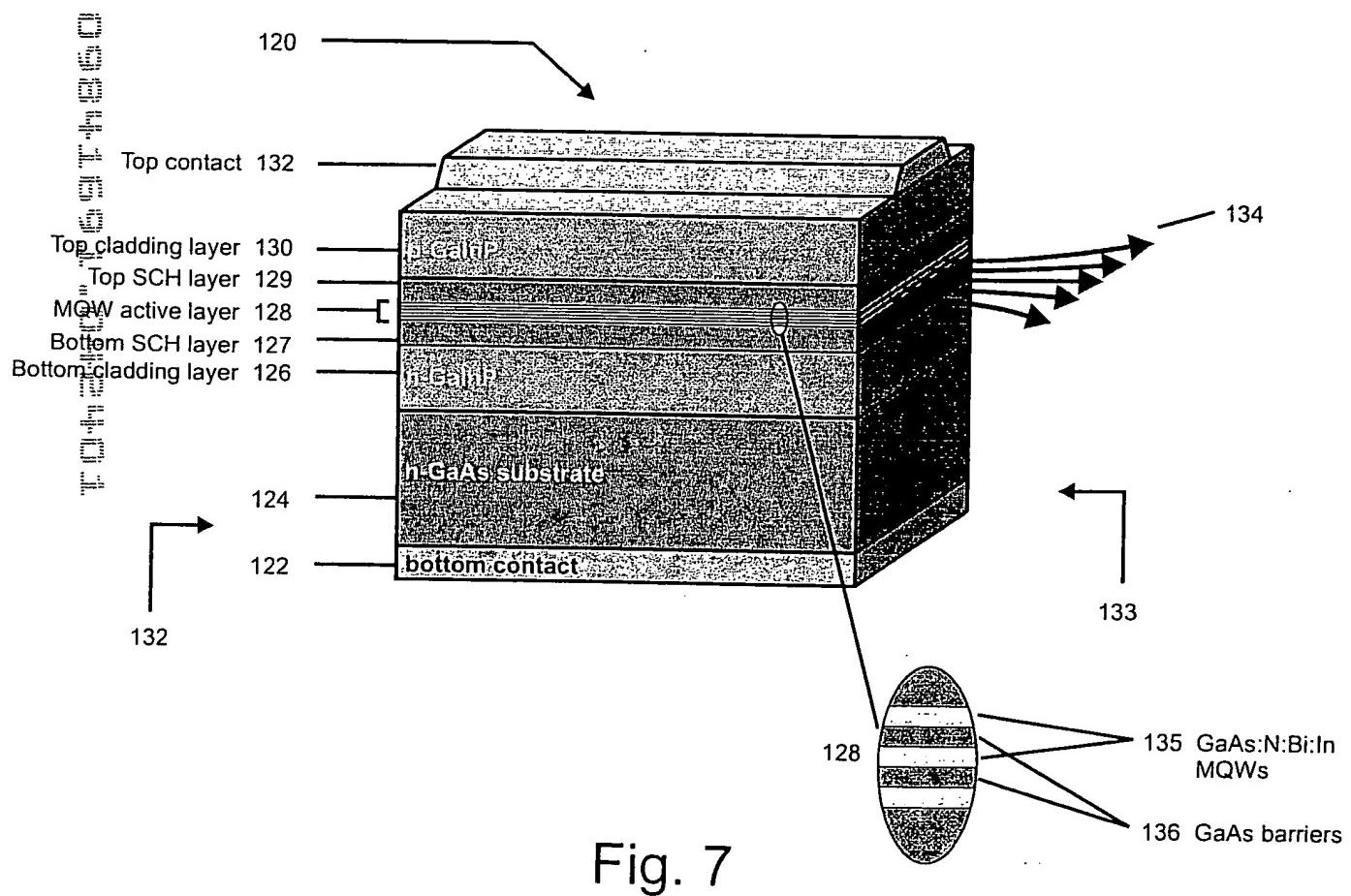


FIG. 6

GaAs-based Edge-Emitting Lasers

1.55 or 1.3 μm wavelength



VCSEL Lasers for 1.3 or 1.55 μm

00000000000000000000000000000000

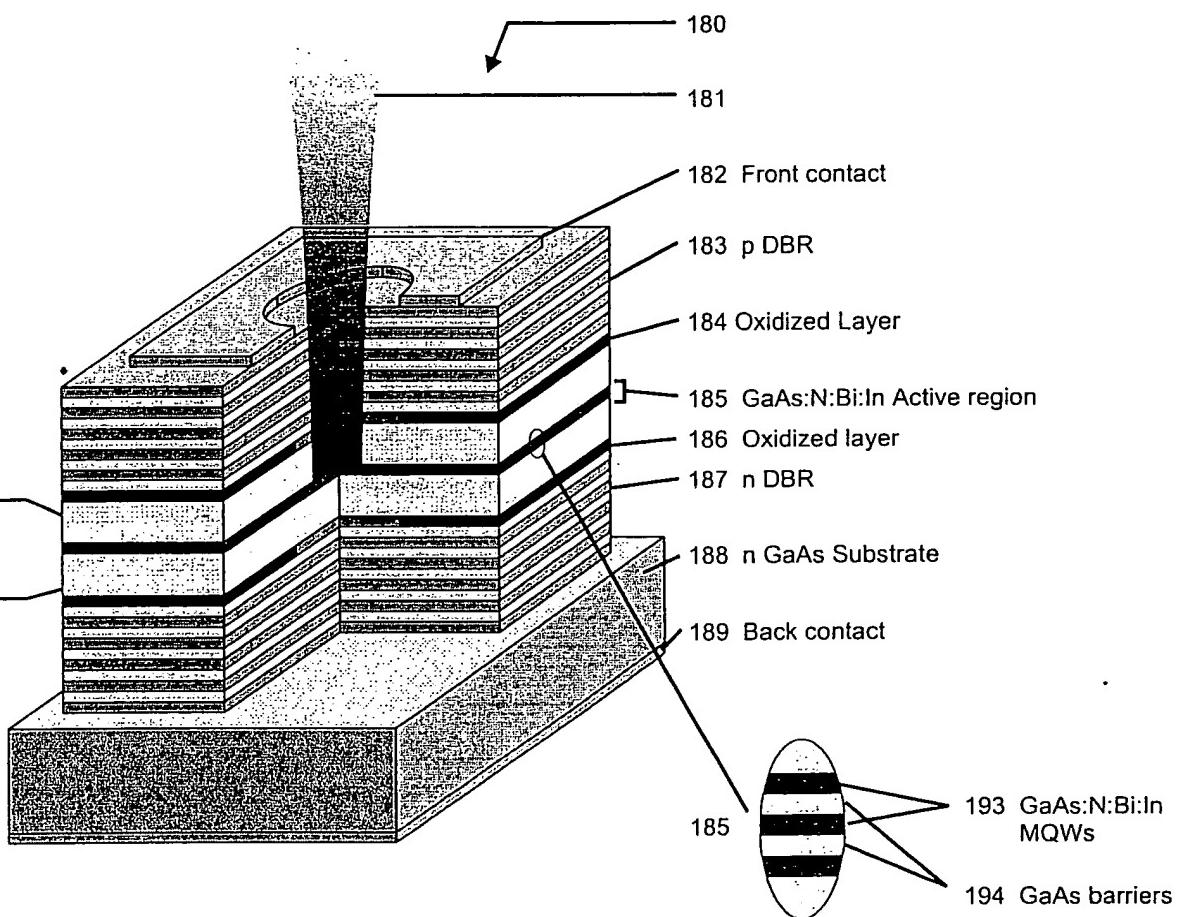


Fig. 8

High Brightness LEDs

Red / NIR LEDs: 640-800 nm

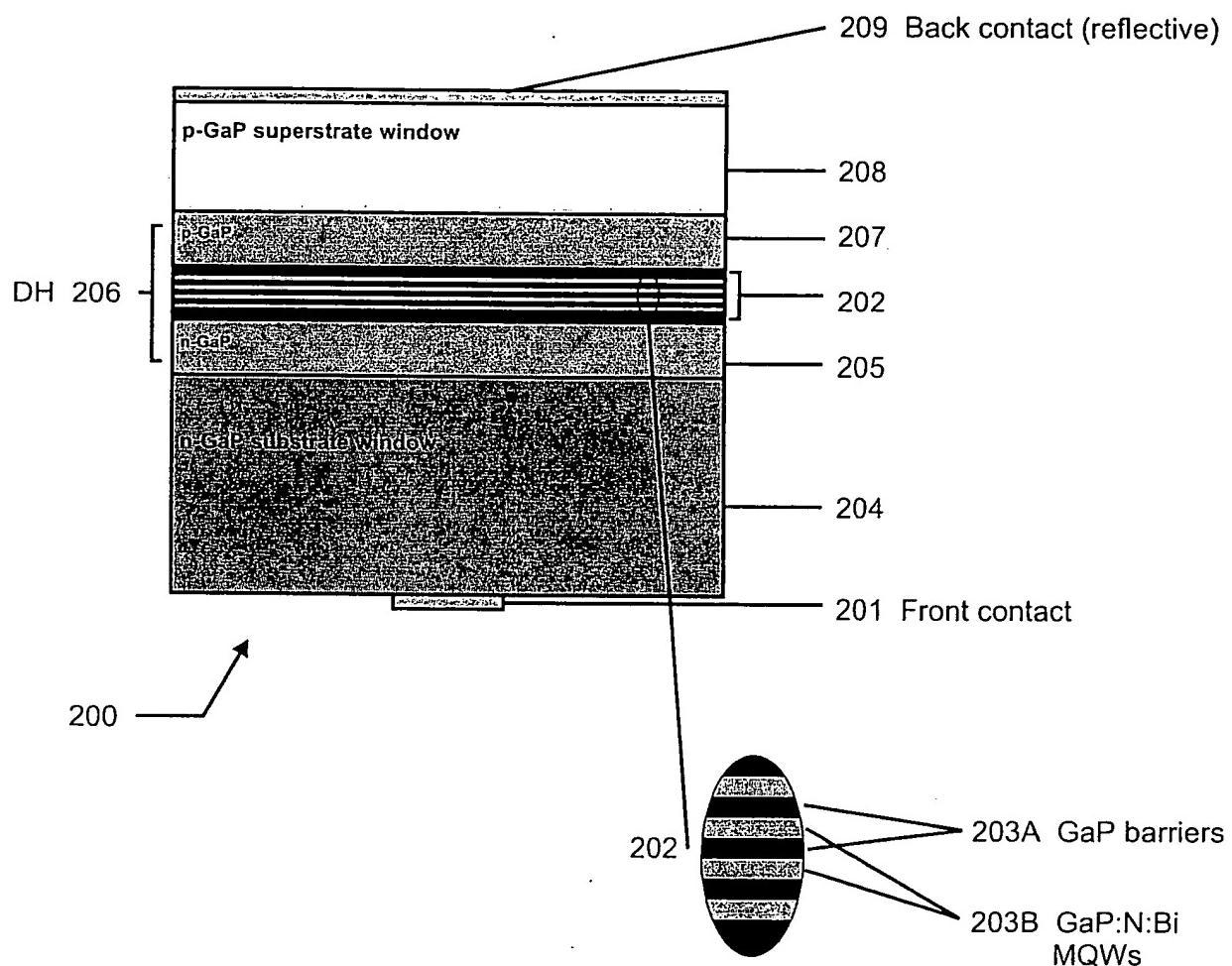


Fig. 9

Silicon monolithic LEDs

Red / NIR LEDs: 640-800 nm

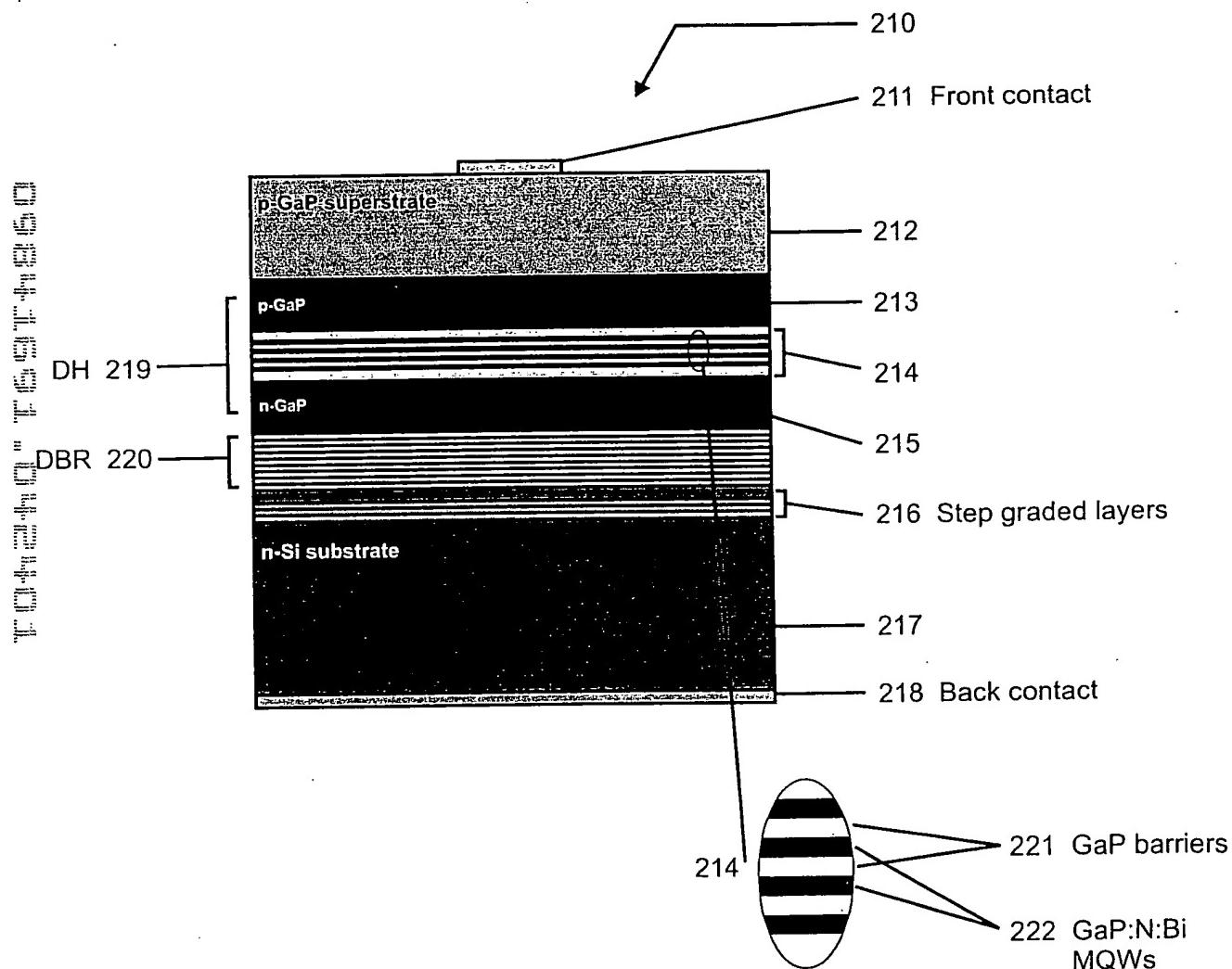


Fig. 10

GaP based Edge-Emitting Lasers

640 - 800 nm wavelength

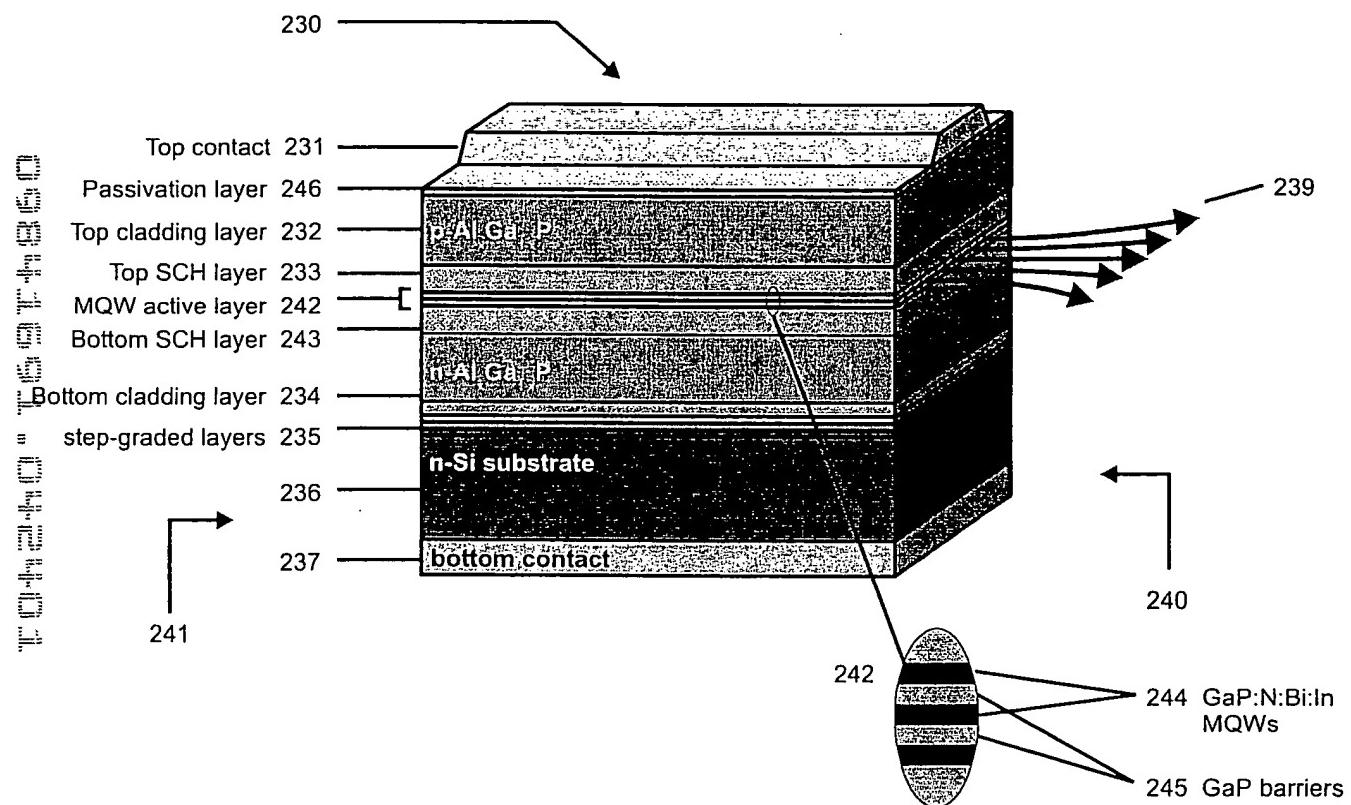


Fig. 11

Thermo Photovoltaic Solar Cell

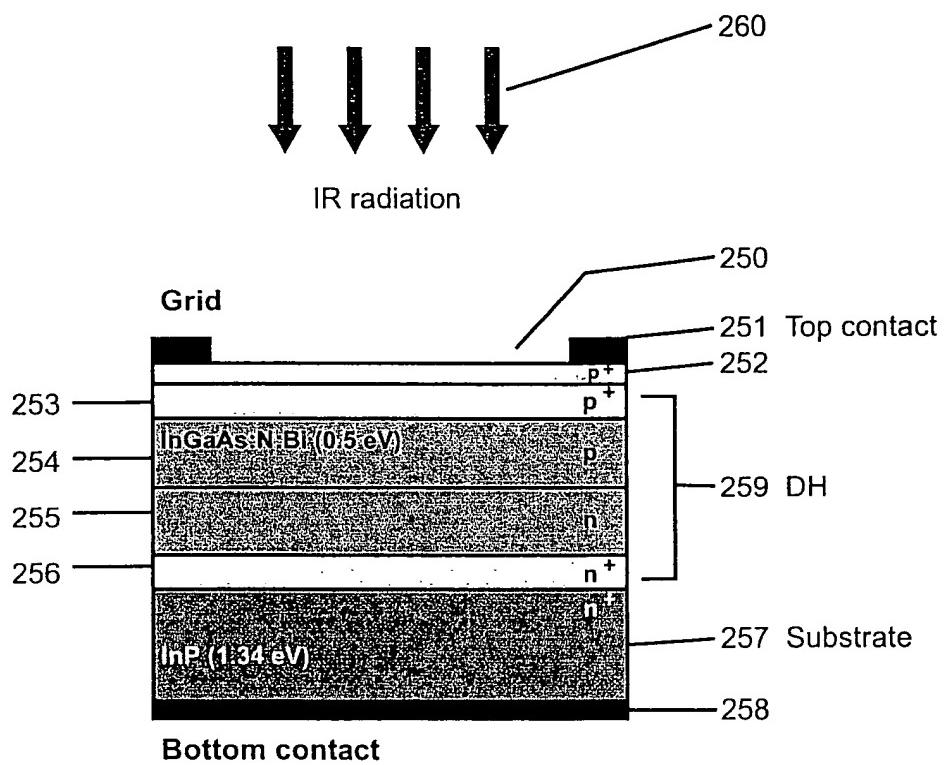


Fig. 12

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Photodetectors

for 1.3 or 1.55 μm wavelengths

Light signals

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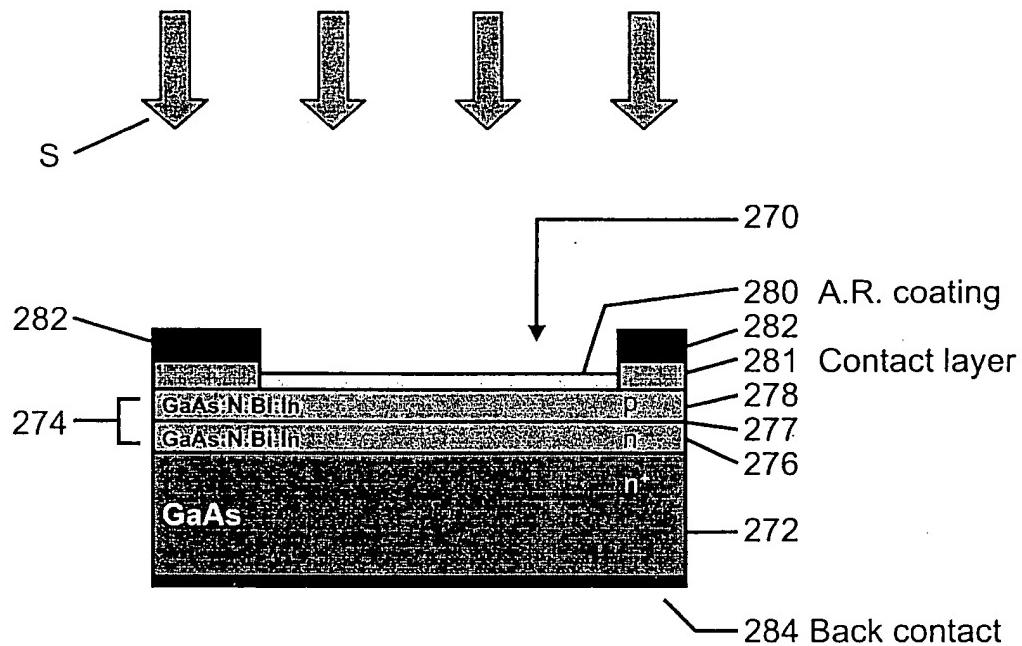


Fig. 13